

A2 Type II: the mono-enzyme or the bi-enzyme system is entrapped in the osmium based redox polymer added on the top of the electrode; or

Type III: the mono-enzyme or the bi-enzyme system and the osmium based redox polymer forms sequential coatings added on top of the electrode.

A3 8. (Amended) The biosensor according to claim 1, characterised in that the electrode is of noble metals, such as gold, silver, platinum, palladium, or carbon/graphite-based material, such a graphite, carbon pasted, vitrous carbon, carbon fibers, or conducting salts, or conducting polymers

A4 10. (Amended) Use of the biosensor according to claim 1, as an analytical instrument or tool for the detection or determination of freshness biomarkers or of the content of freshness biomarkers in food, such as meat from animals or fishes, or beverages.

11. (Amended) Use of the biosensor according to claim 1, as an analytical instrument or tool for the detection or determination of biogenic amines, preferably histamine, in body fluids, such as blood, urine, saliva, sweat, in medical diagnoses or in the treatment of disease.

12. (Amended) Use of the biosensor according to claim 1 as an analytical instrument or tool for the detection or determination of biogenic amines, preferable histamine, in microdialysates or dialysates.